

11/19/11

5c4/953

235	487	Subclass
ISSUE CLASSIFICATION		

6471127

U.S. **UTILITY** Patent Application

<p>MT O.I.P.E.</p> <p>SCANNED <u>aps</u> Q.A. <u>dit</u></p>	<p>PATENT DATE</p> <p>OCT 29 2002</p>
--	---------------------------------------

APPLICATION NO. 09/98,8151	CONT/PRIOR D	CLASS 235	SUBCLASS 487	ART UNIT 2876	EXAMINER
-------------------------------	-----------------	--------------	-----------------	------------------	----------

APPLICANTS

Jamilly Smith
 Linnet Burns
 Richard Collins
 R. Mordshamer

Let $\alpha \in \mathbb{R}$

TITLE

PTO-2040
12/99

ISSUING CLASSIFICATION									
ORIGINAL				CROSS REFERENCE(S)					
CLASS		SUBCLASS		CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
235		487		235	493				
INTERNATIONAL CLASSIFICATION									
G	O	6	K	M/00					

☐ Continued on Issue Slip Inside File Jacket

<input type="checkbox"/> TERMINAL DISCLAIMER	DRAWINGS			CLAIMS ALLOWED	
	Sheets Drwg. <u>1170</u>	Figs. Drwg. <u>28</u>	Print Fig. <u>1A</u>	Total Claims <u>57</u>	Print Claim for O.G. <u>1</u>
<input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.	<u>John M. Caputo</u> (Assistant Examiner)			7/11/02 (Date)	
<input type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S. Patent No. _____ _____ _____	KARL D. FRECH PRIMARY EXAMINER <u>[Signature]</u> (Primary Examiner)			7/15/02 (Date)	
	Amount Due <u>\$1580.00</u>			Date Paid <u>8-13-06</u>	
<input type="checkbox"/> The terminal _____ months of this patent have been disclaimed.	<u>April Denise</u> (Legal Instruments Examiner)			7/23/02 (Date)	

WARNING:

The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.

Form **PTO-436A**
(Rev. 6/99)

FILED WITH: ☐ DISK (CRF) ☐ FICHE ☐ CD-ROM
(Attached in pocket on right inside flap)

(FACE)

ISSUE SLIP STAPLE AREA (for additional cross references)

POSITION	INITIALS	ID NO.	DATE
FEE DETERMINATION	Chester G2	12	11-19-01
O.I.P.E. CLASSIFIER	TH	553	11-30-01
FORMALITY REVIEW			
RESPONSE FORMALITY REVIEW			

INDEX OF CLAIMS

✓ Rejected
 = Allowed
 - (Through numeral)... Canceled
 + Restricted
 N Non-elected
 I Interference
 A Appeal
 O Objected

Claim	Date
Final Original	
1	3/2/01
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	

Claim	Date
Final Original	
51	3/2/01
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

Claim	Date
Final Original	
101	
102	
103	
104	
105	
106	
107	
108	
109	
110	
111	
112	
113	
114	
115	
116	
117	
118	
119	
120	
121	
122	
123	
124	
125	
126	
127	
128	
129	
130	
131	
132	
133	
134	
135	
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
148	
149	
150	

If more than 150 claims or 10 actions
 staple additional sheet here

4557 INSIDE



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 8158

SERIAL NUMBER 09/988,151	FILING DATE 11/19/2001 RULE	CLASS 235	GROUP ART UNIT 2876	ATTORNEY DOCKET NO. 016762.0217-US01
------------------------------------	---	---------------------	-------------------------------	--

APPLICANTS

Jamilly Pentz, Tega Cay, SC;
Emmet Burns, Charlotte, NC;
Richard J. Collins, Highland Park, IL;
R. Bruce Montgomery, Charlotte, NC;
A. Allen Kendle, CHARLOTTE, NC;

** CONTINUING DATA *****

THIS APPLICATION IS A CON OF 09/611,320 07/06/2000
AND IS A CON. OF 29/141,685 05/11/2001 PAT D,453,338
AND IS A CON OF 29/141,652 05/11/2001 PAT D,453,337
AND IS A CON OF 29/141,645 05/11/2001 PAT D,453,160
AND IS A CON OF 29/141,642 05/11/2001 PAT D,453,336
AND IS A CON OF 29/141,688 05/11/2001 PAT D,453,161
AND IS A CON OF 29/141,704 05/11/2001 PAT D,460,455
AND IS A CON OF 29/141,703 05/11/2001 PAT D,453,517
AND IS A CON OF 29/141,691 05/11/2001 PAT D,453,516
AND IS A CON OF 29/141,702 05/11/2001 PAT D,453,339
AND IS A CON OF 29/141,692 05/11/2001
AND IS A CON OF 29/141,701 05/11/2001
AND IS A CON OF 29/141,700 05/11/2001 PAT D,456,814
AND IS A CON OF 29/141,693 05/11/2001
AND IS A CON OF 29/141,699 05/11/2001 PAT D,460,454
AND IS A CON OF 29/142,203 05/22/2001
AND CLAIMS BENEFIT OF 60/263,756 01/25/2001

→ pending

→ pending
→ pending

→ pending

→ pending
→ pending

** FOREIGN APPLICATIONS *****

IF REQUIRED, FOREIGN FILING LICENSE GRANTED

** 11/30/2001

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY SC	SHEETS DRAWING 11	TOTAL CLAIMS 57	INDEPENDENT CLAIMS 3
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged Examiner's Signature <i>Kevin M. Caputo</i> Initials <i>LMC</i>				

ADDRESS

Convington & Burling
Patent Docketing
1201 Pennsylvania Avenue, NW
Washington, DC 20004-2401

TITLE

Data card

**FILING FEE
RECEIVED**
1406

FEES: Authority has been given in Paper
No. _____ to charge/credit DEPOSIT ACCOUNT
No. _____ for following:

☐ All Fees

☐ 1.16 Fees (Filing)

☐ 1.17 Fees (Processing Ext. of
time)

☐ 1.18 Fees (Issue)

☐ Other _____

☐ Credit



INITIALS _____

NOV 29 45 01

CONTENTS

Date Received
(Incl. C. of M.)
or
Date Mailed

Date Received
(Incl. C. of M.)
or
Date Mailed

1. Application <u>11/19/01 papers.</u>	42. _____
2. <u>Withdrawal of Attorney</u>	43. _____
3. <u>Petition - Granted</u>	44. _____
4. <u>Unfinal reg (3 mos)</u>	45. _____
5. <u>Withdrawal of Attorney (N#)</u>	46. _____
6. <u>I. D.S.</u>	47. _____
7. <u>Int Summary</u>	48. _____
8. <u>Amdt A</u>	49. _____
9. <u>Letter Re: Ref.</u>	50. _____
10. <u>Allowance/Exam Amd. B</u>	51. _____
11. <u>10</u>	52. _____
12. _____	53. _____
13. _____	54. _____
14. _____	55. _____
15. _____	56. _____
16. _____	57. _____
17. _____	58. _____
18. _____	59. _____
19. _____	60. _____
20. _____	61. _____
21. _____	62. _____
22. _____	63. _____
23. _____	64. _____
24. _____	65. _____
25. _____	66. _____
26. _____	67. _____
27. _____	68. _____
28. _____	69. _____
29. _____	70. _____
30. _____	71. _____
31. _____	72. _____
32. _____	73. _____
33. _____	74. _____
34. _____	75. _____
35. _____	76. _____
36. _____	77. _____
37. _____	78. _____
38. _____	79. _____
39. _____	80. _____
40. _____	81. _____
41. _____	82. _____